

Title (en)
Compatible optical recording medium

Title (de)
Kompatibles optisches Aufzeichnungsmedium

Title (fr)
Support d'enregistrement optique compatible

Publication
EP 1933313 A1 20080618 (EN)

Application
EP 06301252 A 20061214

Priority
EP 06301252 A 20061214

Abstract (en)
The optical recording medium has a recording layer (2) sensitive for recording at a first wavelength and sensitive for reading at a second wavelength, the recording layer (2) having a groove structure (4), wherein at the first wavelength the groove structure (4) has a diffraction efficiency into a first diffraction order sufficiently large to generate a push-pull signal, and at the second wavelength it has a diffraction efficiency into a first diffraction order close to zero. The optical pickup has a light source for generating a light beam (6) at a first wavelength and a numerical aperture given by the second numerical aperture multiplied with the ratio of the first wavelength and the second wavelength.

IPC 8 full level
G11B 7/0045 (2006.01); **G11B 7/005** (2006.01); **G11B 7/007** (2006.01); **G11B 7/125** (2006.01); **G11B 7/135** (2006.01); **G11B 7/24** (2006.01); **G11B 7/24079** (2013.01); **G11B 7/24097** (2013.01)

CPC (source: EP)
G11B 7/24079 (2013.01); **G11B 7/24097** (2013.01); **G11B 7/0045** (2013.01); **G11B 7/005** (2013.01)

Citation (search report)
[XA] WO 2005017886 A2 20050224 - KONINKL PHILIPS ELECTRONICS NV [NL], et al

Cited by
EP2187392A1; EP2261905A1; EP2360689A1; EP2126910A4; EP2273498A1; EP2161721A1; WO2010057785A1; WO2010142547A1; US7804752B2; WO2008097889A2

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Designated extension state (EPC)
AL BA HR MK RS

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